232-ATSC+1 Firmware History

Date: 4/1/15

Control Firmware (S37):

- V1.1 Fixes errors in status feedback, better volume level operation, reset by holding down Power and Up buttons. Added special front-panel button sequences
    - SELECT + (down) toggles HDCP on/off.
    - (up) + (down) toggles air/cable.
    - (left) + (right) toggles mute on/off.
    - While on Setup: Firmware, SETUP + POWER will cause entry into bootloader.
    - If the setup operation is locked-out, SETUP + > (right) will unlock setup until a reset.
    - If the power is locked-out and the it is off, SETUP + > (right) will turn it on.
    - Holding (up) + (down) during a power-on will cause entry into bootloader.
    - While in Firmware Loader: < (left) button will cause reset, to exit Firmware Loader, if good application exists.
- 1.2 Adds Web Control and Settings pages, now displays 1-part digital channels correctly
    - Added I2C routines for temperature. Only shows temperature if there is a value.
    - Update voltage and temperature while in Setup/Firmware.
    - Added serial commands KK=141-144, KK=158-160, S2 and R5
    - Fixed replies for >EN, >EF commands, (<xEN, <xEF).
    - Added serial commands KK=155-157, KK=161,162.
    - Fixed bug, baud rate was not restored with a power-up reset
    - Added user-changeable Tuner Name
        - >NW=Our Tuner -command
        - >NM -get name
        - <1NMOur Tuner -reply
    - Added backlight, contrast and tuner name serial commands
        - >M0=x -backlight setting, x = 0-9
        - >M8=x -LCD contrast setting, x = 0-8
    - Fixed >S0 command
    - Fixed >S4 (lockout) greater than 7
    - Fixed display of "VOLTAGE HIGH"
    - Fixed IR Power On command
    - Bug fix for 1-part channel numbers and channels greater than 254
- 1.3 Adds HD Load mode, shows HD firmware on Setup:Firmware selection, when user sets tuner to default settings, values are set without needing to reset power.

- 1.5 Adds status command for Channel and Program name (requires HD firmware 4.06 and above)
    - Add: Channel name to front panel LCD.
    - Add: Serial commands for channel name (>NC), and program name (>NP).
    - Add: Support for up to two telnet sessions.
    - Fix: Volume LCD display off by one with single step changes with IR remote.
    - Fix: Saving IP Port addresses greater than 255 with Setup menu.
    - Fix: Keep Digital Audio setting with HD firmware update.
- 1.6 Fixes RS-232 command for tuning analog channels. For example, channel 6 can be tuned with a >TC6 or >TC6-0 command.
- 1.8 Fixes RS-232 daisy-chain operation
- 1.9 Adds testing features for factory production
- 1.10 improves RS-232 and daisy-chain operation
- HD Load 5.02 firmware, initial production release
- 1.18 Improved IR communication to work with automation systems. Increased repeat-key timer from 100 msec to 170msec
- 1.19 fixes RS-232 selection of minor channels over 255
- 2.04 More universal operation between ATSC 4 and ATSC+1 tuners

HD Load

- 4.00 Initial version
- 4.02 Keeps minor channel tuned in when channel goes away
- 4.06 Improved tuning of HRC/IRC analog channels
- 4.11 Improved HDMI audio, EDID and 720p operation
- 4.12 Set analog mute level lower
- 4.13 Added option to lock audio sync to video
- 4.14 Assured that the No Signal icon does not appear when a valid signal is present
- 4.15 Fixed tuner reboot when unexpected or bad data present in transport stream
- 5.02 Initial production release for newer ATSC+1 processor boards, and is backwards-compatible with previous ATSC+ and ATSC+1 tuners
- 5.03 Raises level of composite video (if you had V4 HD firmware, install 1.19 or above S37 firmware
- 5.05 Adapts to incorrect video and audio sync, common to ZeeVee modulators
- 5.06 Allows more universal playback of AC-3 and MPEG1 audio

Notes

- Always update using S37 V2.04 software first, and then update HD Load, if needed.
- There is no reason to go beyond HD Load V 4.15, unless you need HD Load 5.03 to fix the composite video level or out-of sync audio from incorrect encoding